

**Supplemental Specification  
2005 Standard Specification Book**

**SECTION 02317**

**STRUCTURAL EXCAVATION**

**Delete Section 02317 in its entirety and replace with the following:**

**PART 1      GENERAL**

**1.1      SECTION INCLUDES**

- A.      Excavate and backfill for constructing bridges, foundations, box culverts, pipe culverts, drains, and other structures.

**1.2      RELATED SECTIONS**

- A.      Section 00820: Legal Relations and Responsibility to Public
- B.      Section 02056: Common Fill
- C.      Section 02324: Compaction

**1.3      PAYMENT PROCEDURES**

- A.      This work is considered incidental to other items and no separate measurement or payment will be made, except as described in this Section article 3.3, paragraph B for over-excavation directed by the Engineer, necessary import of suitable backfill material directed by the Engineer, or both.

**PART 2      PRODUCTS      Not used**

**PART 3      EXECUTION**

**3.1      PREPARATION**

- A.      Use the plan set for the structure design. The Engineer may order design changes in writing based upon differing site conditions.
- B.      Provide a cofferdam for underwater work. Remove all cofferdams, sheeting, and bracing when no longer needed.

### **3.2 EXCAVATION**

- A. Comply with all applicable regulations when excavating and trenching. Refer to Section 00820.
- B. Excavate rock and other hard strata to design elevation and dimensions.
  - 1. Clean and cut to a firm surface as shown in the plans. Foundation cannot contain loose material.
  - 2. Clean out seams and fill with concrete, mortar, or grout.
- C. Do not over-excavate unless directed by the Engineer.
  - 1. Excavate material unsuitable for the structure foundation to at least 1 ft below the design elevation.
  - 2. Excavate and waste unsuitable material to the depth directed.
- D. Clean the space under structures, in channels, and adjacent areas affected by operations to prevent drift and scour.
- E. Dispose of all unused excavation material as directed by the Engineer.

### **3.3 BACKFILL AND COMPACTION**

- A. Refer to Sections 02056 and 02324.
- B. Excavation of unsuitable material and backfill:
  - 1. Cost of over-excavation, when directed by the Engineer, is paid as extra work.
  - 2. When suitable backfill material is not available from roadway excavation, use other imported suitable backfill material or granular backfill borrow when specified. Imported backfill material cost is paid as extra work and may include transportation or freight costs. Placement of imported backfill material is at no additional expense to the Department.

END OF SECTION